

# COMMON UST FIELD ISSUES THAT WE THOUGHT WOULD NOT BE COMMON ANYMORE

- Juan Fernandez, UST Inspector
- San Diego County
- Hazardous Materials Division, Underground Storage Tank Program
- April 26, 2012



# SECONDARY BOOTS/JUMPER CABLES OBSTRUCTED/BLOCKED

UST owners doing this or???

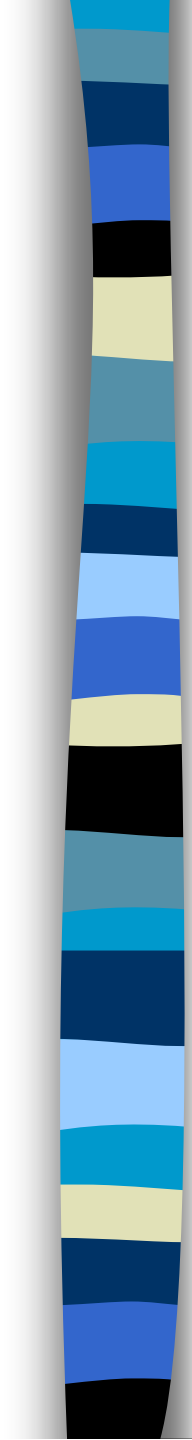


# Chuck Norris always pulls his boots back



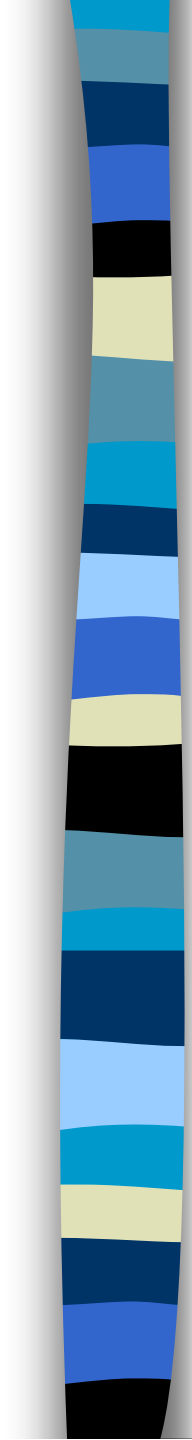
but what does Title 23 say?

2630 (d) All monitoring equipment used to satisfy the requirements of this article shall meet the requirements of section 2643(f) and shall be installed and maintained such that the equipment is capable of detecting a leak at the earliest possible opportunity. Additionally, all monitoring equipment used to satisfy the requirements of this article shall be installed, calibrated, operated, and maintained in accordance with section 2638.



“ I have a significant amount of sites that have Test Boots secured and blocking the flow of product to the sensors after SB989 testing. Today a site had at least 17 pipes that were incapable of being monitored due to the SB989 testing. Of course,. There does seem to be a disconnect between monitoring certification techs and secondary containment testing techs when they do their job “

So what does the testers approved protocol state ????



Here is an example of an approved secondary containment testing protocol:

16. When test is completed, remove all water from sump
17. Retain as test liquid or dispose of in hazardous waste labeled 55-gallon drum.
18. Depressurize secondary product lines.
19. Pull back secondary piping boots, re-install sensor to correct location and confirm / document that monitor is working correctly.
20. Repeat for all sumps.

#19. Indicates that testing company will be removing boots after testing is complete.

**Who is responsible?**  
**Owners/Operators**

# Boots on during hydrostatic test and not removed after test





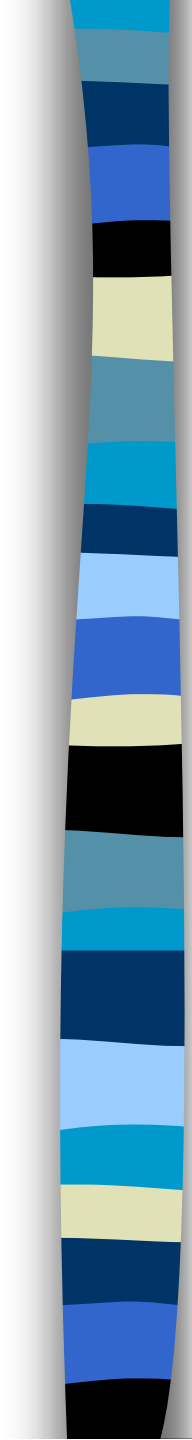
# SECONDARY CONTAINMENT TESTING AT "OUT OF THE NORM" SITES AND SOME RECOMMENDATIONS



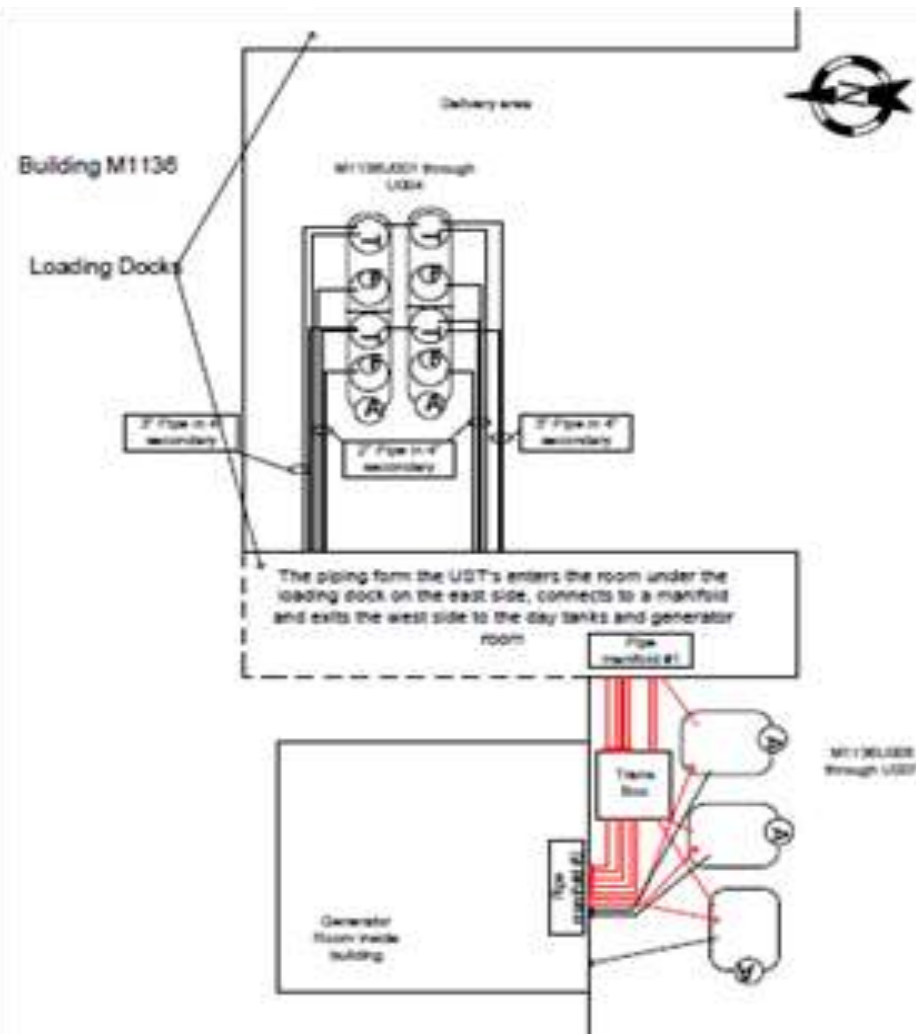


**WHAT CAN TECHS DO TO  
MAKE SURE ALL  
SECONDARIES ARE  
TESTED AT THESE “OUT  
OF THE NORM” SITES?**



- 
1. RECOMMEND SUBMITTAL OF SITE MAPS DETAILING PIPING LAYOUTS AND LOCATION OF SECONDARY COMPONENTS TO INSURE ALL COMPONENTS ARE TESTED
  2. HAVE BETTER COMMUNICATION WITH INSPECTORS AND FACILITY STAFF TO MAKE SURE THAT ALL SECONDARIES ARE TESTED AS REQUIRED

# FACILITY MAP OF UST SYSTEM LAYOUT



# CERTIFICATIONS MISSING REQUIRED ATTACHMENTS

NO/WRONG ALARM HISTORY/SET UP  
DO SUMP CHECKS NOT PERFORMED  
SCT TAPES/GRAPHS MISSING  
SCT REPAIR COMMENTS LEFT EMPTY

Still???





# County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION

P.O. BOX 128261, SAN DIEGO, CA 92112-9261  
(858) 505-6880 FAX (858) 505-6848; <http://www.sdcdeh.org>

## UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: \_\_\_\_\_

Permit Number: \_\_\_\_\_

### A. General Information

Facility Name: \_\_\_\_\_ Bldg. No.: \_\_\_\_\_

Site Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Facility Contact Person: \_\_\_\_\_ Contact Phone No.: (\_\_\_\_) \_\_\_\_\_

Make/Model of Monitoring System: \_\_\_\_\_ Date of Testing/Servicing: \_\_\_\_/\_\_\_\_/\_\_\_\_

### B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/inspected/serviced:

<b>Tank ID:</b> <input type="checkbox"/> In-Tank Gauging Probe. Model: _____ <input type="checkbox"/> Annular Space or Vault Sensor. Model: _____ <input type="checkbox"/> Piping Sump / Trench Sensor(s). Model: _____ <input type="checkbox"/> Fill Sump Sensor(s). Model: _____ <input type="checkbox"/> Mechanical Line Leak Detector. Model: _____ <input type="checkbox"/> Electronic Line Leak Detector. Model: _____ <input type="checkbox"/> Tank Overfill / High-Level Sensor. Model: _____ <input type="checkbox"/> Other (specify equipment type and model in Section E on Page 2): _____	<b>Tank ID:</b> <input type="checkbox"/> In-Tank Gauging Probe. Model: _____ <input type="checkbox"/> Annular Space or Vault Sensor. Model: _____ <input type="checkbox"/> Piping Sump / Trench Sensor(s). Model: _____ <input type="checkbox"/> Fill Sump Sensor(s). Model: _____ <input type="checkbox"/> Mechanical Line Leak Detector. Model: _____ <input type="checkbox"/> Electronic Line Leak Detector. Model: _____ <input type="checkbox"/> Tank Overfill / High-Level Sensor. Model: _____ <input type="checkbox"/> Other (specify equipment type and model in Section E on Page 2): _____
<b>Tank ID:</b> <input type="checkbox"/> In-Tank Gauging Probe. Model: _____ <input type="checkbox"/> Annular Space or Vault Sensor. Model: _____ <input type="checkbox"/> Piping Sump / Trench Sensor(s). Model: _____ <input type="checkbox"/> Fill Sump Sensor(s). Model: _____ <input type="checkbox"/> Mechanical Line Leak Detector. Model: _____ <input type="checkbox"/> Electronic Line Leak Detector. Model: _____ <input type="checkbox"/> Tank Overfill / High-Level Sensor. Model: _____ <input type="checkbox"/> Other (specify equipment type and model in Section E on Page 2): _____	<b>Tank ID:</b> <input type="checkbox"/> In-Tank Gauging Probe. Model: _____ <input type="checkbox"/> Annular Space or Vault Sensor. Model: _____ <input type="checkbox"/> Piping Sump / Trench Sensor(s). Model: _____ <input type="checkbox"/> Fill Sump Sensor(s). Model: _____ <input type="checkbox"/> Mechanical Line Leak Detector. Model: _____ <input type="checkbox"/> Electronic Line Leak Detector. Model: _____ <input type="checkbox"/> Tank Overfill / High-Level Sensor. Model: _____ <input type="checkbox"/> Other (specify equipment type and model in Section E on Page 2): _____
<b>Dispenser ID:</b> <input type="checkbox"/> Dispenser Containment Sensor(s). Model: _____ <input type="checkbox"/> Shear Valve(s). <input type="checkbox"/> Dispenser Containment Float(s) and Chain(s).	<b>Dispenser ID:</b> <input type="checkbox"/> Dispenser Containment Sensor(s). Model: _____ <input type="checkbox"/> Shear Valve(s). <input type="checkbox"/> Dispenser Containment Float(s) and Chain(s).
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\*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

**C. Certification** - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklist) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such report, I have also attached a copy of the report (check all that apply): ☐ System set-up ☐ Alarm history report

Technician Name (print): \_\_\_\_\_

Signature: \_\_\_\_\_

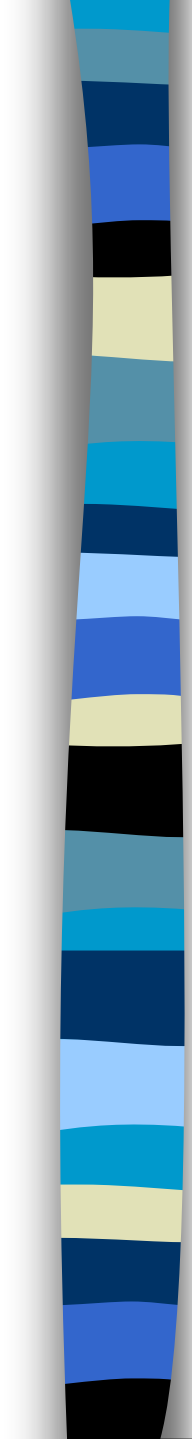
Certification No.: \_\_\_\_\_ License No.: \_\_\_\_\_

Testing Company Name: \_\_\_\_\_ Phone No.: (\_\_\_\_) \_\_\_\_\_

Testing Company Address: \_\_\_\_\_ Date of Testing/Servicing: \_\_\_\_/\_\_\_\_/\_\_\_\_

HM-9301 (03/11)

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C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report (*check all that apply*): ☐ *System set-up* ☐ *Alarm history report*

Note: Alarm history attached to certification must have same date as certification form



COUNTY OF SAN DIEGO CUPA  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
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Designated Underground Storage Tank (UST) Operator  
Monthly Visual Inspection Checklist

Facility Name:	Date: / /
Facility Address:	
City:	Zip Code:
Designated UST Operator Conducting the Inspection:	
International Code Council Certification #:	Expiration Date: / /
Signature:	Phone: ( )

		Y = Yes, N = No, NA = Not Applicable		
Item	MONITORING PANEL / ALARM HISTORY	Y	N	NA
1	Monitoring system is powered on and in proper operating mode.			
2	Monitoring system is not currently showing any alarms or warnings.			
3	Alarm history report/log for the previous month is available, and has been reviewed by the Designated UST Operator. (Attach a copy of the alarm history report/log to this form if available.)			
4	Each alarm for the previous month has been responded to appropriately.			
5	Sensors located in containment sumps have not alarmed in the past month.			
5a	- List all sumps where alarms occurred in the past month:			
<small>Note: Sump(s) i.e. tank-top, transition, and vapor post) where an alarm has occurred in the past month must be inspected unless a qualified service technician responded to, and properly addressed, the cause of the alarm. Attach documentation verifying appropriate service. If sump inspection is required, record results in item 6, below.</small>				

		Y			N			NA		
6	All containment sumps (except UDC) are free of water, debris, and hazardous substance. Sensors are located properly.									
<small>Note: Visual inspection of sumps is only required in sumps where an alarm has occurred in the past month for which there is no service record.</small>										
	Sump Location:				Sump Location:					
	Sump Location:				Sump Location:					
	Sump Location:				Sump Location:					
7	Spill containment structures (buckets) are free of water, debris, and hazardous substance.									
	Tank 1 - Contents:				Tank 3 - Contents:					
	Tank 2 - Contents:				Tank 4 - Contents:					
8	Under-dispenser containment areas are free of water, debris, and hazardous substance. Sensors are located properly.									
	Dispenser 1 / 2				Dispenser 9 / 10					
	Dispenser 3 / 4				Dispenser 11 / 12					
	Dispenser 5 / 6				Dispenser 13 / 14					
	Dispenser 7 / 8				Dispenser 15 / 16					

		Y	N	NA	DATE DONE
9	Monitoring system certification has been completed within past 12 months.				
10	Secondary containment tests have been completed within required timeframe.				
11	Spill containment structure (bucket) testing was completed within the past year.				
12	Tank tightness testing was completed within required timeframe.				
13	Line tightness testing was completed within required timeframe.				
14	Other required testing/maintenance was completed within required timeframe. (List test/maintenance items below.)				
	Test/Maintenance:				
	Test/Maintenance:				
	Test/Maintenance:				

		Y	N	NA
15	All facility employees have received the required on-the-job training within the past year.			
16	All facility employees hired within the past 30 days have received the required on-the-job training.			

Note: Any answer of "N" should be explained in the comment section on the following page, and will require follow-up action.



# #3 Attach a copy of the alarm history report/log to this form if available

Y = Yes, N = No, NA = Not Applicable				
Item	MONITORING PANEL / ALARM HISTORY	Y	N	NA
1	Monitoring system is powered on and in proper operating mode.			
2	Monitoring system is <b>not</b> currently showing any alarms or warnings.			
3	Alarm history report/log for the previous month is available, and has been reviewed by the Designated UST Operator. <i>(Attach a copy of the alarm history report/log to this form if available.)</i>			
4	Each alarm for the previous month has been responded to appropriately.			
5	Sensors located in containment sumps have <b>not</b> alarmed in the past month.			
5a	<p>- List all sumps where alarms occurred in the past month: _____</p> <p>_____</p> <p><i>Note: Sumps(i.e. tank-top, transition, and vapor pot) where an alarm has occurred in the past month must be inspected unless a qualified service technician responded to, and properly addressed, the cause of the alarm. Attach documentation verifying appropriate service.</i></p> <p><i>If sump inspection is required, record results in item 6, below.</i></p>			

## SECONDARY CONTAINMENT TEST RESULTS. NOW WHAT????????

1. SCT results missing test tape results or tape results are altered.
2. SCT cover page indicates repairs on a certain component made but no comments to indicate what was done (we do not have super human guessing powers!!!!).





## County of San Diego

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P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
(619) 595-8888 FAX (619) 595-8848

### UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT & SPILL CONTAINMENT TESTING REPORT FORM

*This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.*

Permit Number:

Plan Check Number:

#### 1. FACILITY INFORMATION

Facility Name:	Date of Testing:	Test Type: <input type="checkbox"/> Initial <input type="checkbox"/> Repair Test <input type="checkbox"/> 6 month <input type="checkbox"/> Other: <input type="checkbox"/> 36 month
Facility Address:		
Facility Contact:	Phone:	
Date Local Agency Was Notified of Testing:		
Name of Local Agency Inspector (if present during testing):		

#### 2. TESTING CONTRACTOR INFORMATION

Company Name:		
Technician Conducting Test:		
Credentials:	<input type="checkbox"/> CSLB Licensed Contractor <input type="checkbox"/> SWRCB Licensed Tank Tester	
License Type:	License Number:	
Manufacturer	Manufacturer Training Component(s)	Date Training Expires

#### 3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

For any equipment capable of generating a print out of test results, you must attach a copy of the test report to this certification ☐ System printout attached.

#### CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature:

Date:

### 5. SECONDARY PIPE TESTING

Test Method Developed By:	<input type="checkbox"/> Piping Manufacturer	<input type="checkbox"/> Industry Standard	<input type="checkbox"/> Professional Engineer
	<input type="checkbox"/> Other (Specify)		
Test Method Used:	<input type="checkbox"/> Pressure	<input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic
	<input type="checkbox"/> Other (Specify)		
Test Equipment Used:	Equipment Resolution:		
	Piping Run #	Piping Run #	Piping Run #
Piping Material:			
Piping Manufacturer:			
Piping Diameter:			
Length of Piping Run:			
Product Stored:			
Method and location of piping-run isolation:			
Wait time between applying pressure/vacuum/water and starting test:			
Test Start Time:			
Initial Reading ( $R_i$ ):			
Test End Time:			
Final Reading ( $R_f$ ):			
Test Duration:			
Change in Reading ( $R_f - R_i$ ):			
Pass/Fail Threshold or Criteria:			
Test Result:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

*Comments – (include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Comments – (include information on repairs made prior to testing, & recommended follow-up for failed tests)

Comments – (include information on repairs made prior to testing, and recommended follow-up for failed tests)

T-4 OIL/WATER SEPARATOR ANNULAR IS NOT HOLDING VACUUM, VACUUMED ANNULAR SPACE  
SEVERAL TIMES & LET SETTLE, STILL DROPPING, NEED TROUBLE SHOOTING TO FIND  
CAUSE OF LEAKAGE, REPAIR, AND RETESTING.

Comments – (include information on repairs made prior to testing, and recommended follow-up for failed tests)

SCRAPED AND CLEANED OUT ANNULAR OF RUST IN RISER AND AT BOTTOM OF ANNULAR. ALL  
RUST WAS VACUUMED PRIOR TO TESTING TODAY. RUST APPEARS TO BE DUE TO  
CONDENSATION. NO LIQUID WAS FOUND IN ANNULAR. ORIGINAL TESTING WAS DONE FOR 1  
HOUR AT 10" HG AND DROPPED TO 4" HG.  
TESTING CONDUCTED TODAY PASSED 1 HOUR TEST AT 10" HG WITH NO DROP IN VACUUM.



If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (\*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)

Where can we find this statement??????



6. PIPING SUMP TESTING				
Test Method Developed By:	<input type="checkbox"/> Sump Manufacturer <input type="checkbox"/> Industry Standard <input type="checkbox"/> Professional Engineer <input type="checkbox"/> Other (Specify)			
Test Method Used:	<input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Other (Specify)			
Test Equipment Used:	Equipment Resolution:			
	Sump #	Sump #	Sump #	Sump #
Sump Diameter:				
Sump Depth:				
Sump Material:				
Height from Tank Top to Top of Highest Piping Penetration:				
Height from Tank Top to Lowest Electrical Penetration:				
Condition of sump prior to testing:				
Portion of Sump Tested <sup>2</sup> :				
Does turbine shut down when sump sensor detects liquid (both product and water)?*	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Turbine shutdown response time				
Is system programmed for fail-safe shutdown?*	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Was fail-safe verified to be operational?*	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R <sub>i</sub> ):				
Test End Time:				
Final Reading (R <sub>f</sub> ):				
Test Duration:				
Change in Reading (R <sub>f</sub> -R <sub>i</sub> ):				
Pass/Fail Threshold or Criteria:				
Test Result:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Was sensor removed for testing?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Was sensor properly replaced and verified functional after testing?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Comments – (include information on repairs made prior to testing, and recommended follow-up for failed tests.)

If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (\*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)



**REMINDER: DOUBLE-WALL UST'S  
EQUAL TO OR GREATER THAN  
20K GALLONS  
MUST HAVE INTERSTIAL  
VACUUM TEST FOR A MINIMUM  
OF 2 HRS EVERY 3 YEARS**

**Don't Forget!**





# NOTIFICATIONS AND REPORT SUBMITTAL

**2637 (F)** Owners and operators of underground storage tanks must notify the local agency at least 48 hours prior to conducting the test, unless this notification requirement is waived by the local agency

\*communication with area inspector is priceless\*

- Test must be completed on date of notification or results can be rejected. We need the opportunity to witness these test.

**2637 (e)** Underground storage tank owners and operators shall submit a copy of the test report to the local agency within 30 days of the completion of the test

# REPAIRS THAT REQUIRE A PERMIT BUT SEEM TO GET OVERLOOKED ON OCCASION

1. Replacement of flex lines in sumps and UDC's
2. Replacement of shear valves
3. Upgrades to Veeder Root software/ECPU boards/cold starts
4. Replacement of electrical penetrations within testable zones



# Examples of repairs that need repair permits and other photos





**POSSIBLE SOLUTION FOR OPENING JUMPERS IN  
UNDER DISPENSER CONTAINMENT???**



# BOOTS ON DURING TESTING





# ELECTRICAL PENETRATION REPAIRS

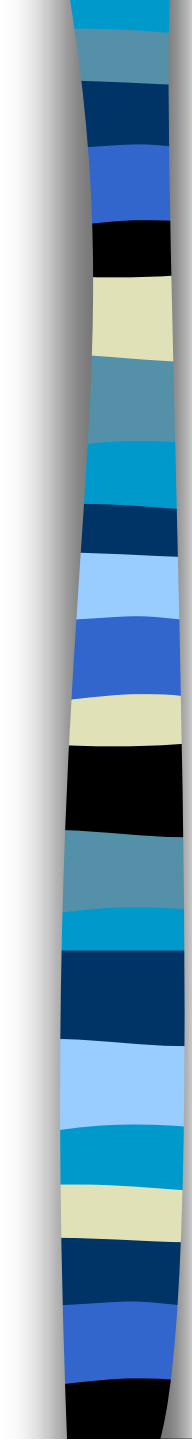


# SHEAR VALVE REPLACEMENT



**WE SEE SOME REALLY GOOD CLEAN  
REPAIRS ALSO!!!! THANK YOU**





Juan Fernandez  
UST Inspector, North/Central  
San Diego County  
760-940-2958  
[Juan.fernandez@sdcounty.ca.gov](mailto:Juan.fernandez@sdcounty.ca.gov)



**QUESTIONS!!!!!!**



**Thank you very much for  
your time!!!**